



EXPRESS MAIL NO. EV207709506US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Donald S. Karanewsky et al.  
Application No. : 09/765,105  
Filed : January 16, 2001  
For : C-TERMINAL MODIFIED OXAMYL DIPEPTIDES AS  
INHIBITORS OF THE ICE/CED-3 FAMILY OF CYSTEINE  
PROTEASES

Examiner : David Lukton  
Art Unit : 1653  
Docket No. : 480140.442C1  
Date : June 20, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). References AE, AF, and AH-AK were cited in a search report for a related application PCT/US02/01538, mailed February 14, 2003, a copy of which is enclosed. As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

We hereby certify that each of the references set forth on the attached form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign

RECEIVED  
JUN 25 2003  
TECH CENTER 1600/2000

application not more than three months prior to the filing of this Information Disclosure Statement.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,  
Donald S. Karanewsky et al.  
Seed Intellectual Property Law Group PLLC



---

Karl R. Hermanns

Registration No. 33,507

Enclosures:

Form PTO-1449  
Copy of Search Report  
Cited References (19)

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

D:\480140.442C1\364949\_1.DOC

|   |  |  |   |                                  |                               |
|---|--|--|---|----------------------------------|-------------------------------|
| FORM PTO-1449<br>(REV.7-80)   | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  |   | ATTY. DOCKET NO.<br>480140.442C1 | APPLICATION NO.<br>09/765,105 |
| INFORMATION DISCLOSURE STATEMENT<br>(use several sheets if necessary) |  |  | APPLICANTS<br>Donald S. Karanewsky et al. |                                  |                               |
|   |  |  | FILING DATE<br>January 16, 2001           | GROUP ART UNIT<br>1653           |                               |

O I P E  
JUN 20 2003  
P A T E N T A D M I N I S T R A T I O N

R E C E I V E D  
JUN 25 2003  
TECH CENTER 2000/2000

## U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE     | NAME           | CLASS | SUBCLASS | FILED DATE IF APPROPRIATE |
|-------------------|-----------------|----------|----------------|-------|----------|---------------------------|
| AA                | 6,235,899       | 05/22/01 | Bouchet et al. | 540   | 500      | JUN 25 2003               |
| AB                |                 |          |                |       |          |                           |
| AC                |                 |          |                |       |          |                           |
| AD                |                 |          |                |       |          |                           |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT NUMBER | DATE     | COUNTRY                      | TRANSLATION |
|--|----|-----------------|----------|------------------------------|-------------|
|  |    |                 |          |                              | YES NO      |
|  | AE | WO 97/22619     | 06/26/97 | WIPO                         |             |
|  | AF | WO 98/10778     | 03/19/98 | WIPO                         |             |
|  | AG | WO 99/03852     | 01/28/99 | WIPO (+ English Translation) | X           |
|  | AH | WO 00/01666     | 01/13/00 | WIPO                         |             |
|  | AI | WO 00/23421     | 04/27/00 | WIPO                         |             |
|  | AJ | WO 01/00658     | 01/04/01 | WIPO                         |             |
|  | AK | WO 01/51462     | 07/19/01 | WIPO                         |             |
|  | AL | WO 01/81330     | 11/01/01 | WIPO                         |             |

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |  |  |
|----|--|--|
| AM |  | Chapman K., "Synthesis of a Potent, Reversible Inhibitor of Interleukin-1 $\beta$ Converting Enzyme," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 2(6):613-618, 1992.  |
| AN |  | Cheung et al., "Synthesis of 3-Amino-3-Vinylpropanoic Acid and its Conversion to 4-Amino-5-Hydroxy-4,5-Dihydrofuran-2-one Hydrochloride (HAD), A Cyclic Stabilised Form of Aspartate 1-Semialdehyde Hydrochloride," <i>Tetrahedron</i> 53(46):15807-15812, 1997. |
| AO |  | de Lange et al., "Asymmetric 1, 4-Additions to 5-Alkoxy-2(5H)-Furanones Enantioselective Synthesis and Absolute Configuration Determination of $\beta$ -Amino- $\gamma$ -Butyrolactones and Amino Diols," <i>Tetrahedron</i> 45(21):6799-6818, 1989.             |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
|          |                 |

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

|   |             |   |  |                                  |                               |
|---|-------------|---|--|----------------------------------|-------------------------------|
| FORM PTO-1440<br>(REV.7-80)   | JUN 20 2003 |   | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO.<br>480140.442C1 | APPLICATION NO.<br>09/765,105 |
| INFORMATION DISCLOSURE STATEMENT<br>(use several sheets if necessary) |             | APPLICANTS<br>Donald S. Karanewsky et al. |  | FILING DATE<br>January 16, 2001  | GROUP ART UNIT<br>1653        |

RECEIVED  
JUN 25 2003  
TECH CENTER 1600  
1600

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | SEARCHING DATE IF APPROPRIATE |
|------------------|-----------------|------|------|-------|----------|-------------------------------|
| BA               |                 |      |      |       |          |                               |
| BB               |                 |      |      |       |          |                               |
| BC               |                 |      |      |       |          |                               |
| BD               |                 |      |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT NUMBER | DATE | COUNTRY | TRANSLATION |
|--|----|-----------------|------|---------|-------------|
|  |    |                 |      |         | YES NO      |
|  | BE |                 |      |         |             |
|  | BF |                 |      |         |             |
|  | BG |                 |      |         |             |

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |   |
|----|---|
| BH | Faber et al., "Catalytic Kinetic Resolution of 5-Alkoxy-2(5H)-Furanones," <i>Tetrahedron</i> 50(16):4775-4794, 1994.  |
| BI | Feringa et al., "Asymmetric Synthesis of 2-Amino-1, 4-Diols," <i>Tetrahedron Letters</i> 29(11):1303-1306, 1988.  |
| BJ | Feringa et al., "1, 4-Additions of Amines to 5-Methoxyfuran-2(5H)-One; An Efficient Synthesis of Amino Diols," <i>Heterocycles</i> 27(5):1197-1205, 1988.   |
| BK | Furuichi et al., "Common Synthetic Strategy for Optically Active Cyclic Terpenoids having a 1,1,5-Trimethyl- <i>Trans</i> -Decalin Nucleus: Syntheses of (+)-Acuminolide, (-)-Spongianolide A, and (+)-Scalarenedial," <i>Tetrahedron</i> 57, pp. 8425-8442, 2001.                |
| BL | Gonzalez et al., "Pseudoesters and Derivatives. Part38. 1,3-Dipolar Cycloadditions of Aryl Azides and an Aziridine, <i>Via</i> Azomethine Ylide, to 2(5H)-Furanones Substituted at the 5-Position by Methoxy and Sulfur Bearing Groups," <i>Heterocycles</i> 52(1):237-251, 2000. |
| BM | Leblanc et al., "Sar in the Alkoxy Lactone Series: The Discovery of DFP, A Potent and Orally Active Cox-2 Inhibitor," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 9, pp. 2207-2212, 1999.   |
| BN | Lubben et al., "Asymmetric Synthesis of $\beta$ -Lactams via Amine Additions to 5(R)-Menthylxy-2[5H]-Furanone," <i>Tetrahedron: Asymmetry</i> 2(8):775-778, 1991.   |

| EXAMINER | DATE CONSIDERED |
|----------|-----------------|
|          |                 |

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).